



COMBINED PROGRAMME IN BUILDING ENGINEERING

The combined programme in building engineering leads to the award of the degrees of B.Eng. (Civil) and M.Eng. (Building).

The Programme

The programme, as defined, consists of an integrated bachelor's and master's programme which may be completed in four years and which builds on two proven degree programmes: the Bachelor of Engineering (Civil) and the Master of Engineering (Building). It has been designed to appeal to students who aspire to leadership roles within the building industry and who can maintain an accelerated pace of studies.

The Discipline

Building Engineering, as a discipline, encompasses the body of knowledge which pertains to all phases in the life cycle of a constructed facility, namely conception, planning, design, construction, operation and disposal.

The Opportunities

The services of the building engineer will be sought by consultants, owners, contractors, manufacturers, government and research and educational institutions. His/her talents will be applied to all phases in the life cycle of various types of built facilities which include commercial, residential, industrial and institutional facilities as well as to the development of new innovations and knowledge pertaining to the built environment.

Programme Content

The programme has as its focus four branches of building engineering: building environment, building science, building structures and construction management. Each student receives an in-depth treatment of the engineering fundamentals which relate to the above four branches as well as specialist knowledge in one of these branches and a minor in one other branch.

Within the area known as building environment, emphasis is placed on thermal environment, acoustics and illumination. Topics treated include the analysis and design of conventional building mechanical systems, sound isolation and noise control, and innovative systems such as solar energy. The area of building science emphasizes building materials, building enclosure systems and industrialized building. The area of building structures concentrates on principles of structural analysis and design application of these principles to the investigation of building structural systems. The building structures branch is offered in collaboration with the Department of Civil Engineering. The area of construction management emphasizes both what is being managed as well as the techniques of management and includes the treatment of legal and labour issues in construction, the techniques of planning, scheduling and control of construction projects and methods of construction.

Admission

Applicants from CEGEP must have fulfilled the two-year DEC requirements prior to registration in the university. Specific course requirements for each applicant should be discussed on an individual basis with a programme adviser from the Centre for Building Studies.

For further information and a complete brochure, call (514) 879-8551, or write to the Combined Degree Programme Coordinator at the address shown on the letterhead.